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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/753,968	01/08/2004		Wolfgang Papiernik	PAPIERNIK-2	5670
20151	7590	01/30/2006		EXAMINER .	
		EISEN, LLC	PHAM, THOMAS K		
350 FIFTH A SUITE 4714		3	ART UNIT	PAPER NUMBER	
	NEW YORK, NY 10118				
				DATE MAILED: 01/30/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/753,968	PAPIERNIK ET AL.			
Office Action Summary	Examiner	Art Unit			
	Thomas K. Pham	2121			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
 1) ⊠ Responsive to communication(s) filed on 08 Ja 2a) ☐ This action is FINAL. 2b) ☒ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6,8,11 and 12 is/are rejected. 7) ☐ Claim(s) 7,9 and 10 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on <u>08 January 2004</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ⊠ All b) ☐ Some * c) ☐ None of: 1. ☒ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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First Action on the Merits

1. Claims 1-12 of U.S. Application 10/753,968 filed on 01/08/2004 are presented for examination.

Quotations of U.S. Code Title 35

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim Rejections - 35 USC § 102

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipate by U.S. Patent No. 6.

5,036,265 ("Weihrich").

Regarding claim 1

Weihrich teaches a method for identifying a control path of a controlled system, comprising the

steps of:

determining at least one deterministic perturbation correcting signal in a first

identification process (see Col. 4 lines 1-14);

storing the perturbation correcting signal in the form of a function (see Col. 3 lines 41-50

and Col. 14 lines 12-17); and

identifying a control path of the controlled system in a second identification process by

adding to the controlled system the at least one stored deterministic perturbation

correcting signal with a negative feedback (see Col. 4 lines 15-38).

Regarding claim 2

Weihrich teaches the function is stored in the form of a table and/or in the form of splines (see

Col. 3 lines 41-54).

Regarding claim 3

Weihrich teaches the at least one deterministic perturbation correcting signal is determined from

an output signal obtained from at least one controller of a closed control loop of the controlled

system (see Col. 4 lines 29-38).

Regarding claim 4

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Weihrich teaches setting an amplification factor of the controller to a high value for determining

the deterministic perturbation correcting signal in the first identification process (see Col. 4 lines

41-48).

Regarding claim 5

Weihrich teaches setting an amplification factor of the controller to a low value for identifying a

control path of the controlled system in the second identification process (see Col. 4 lines 41-48).

Regarding claim 6

Weihrich teaches applying in the second identification process to the input of the controlled

system a stimulus signal for exciting the controlled system (see FIG. 2 and Col. 5 lines 50-61).

Regarding claim 8

Weihrich teaches the perturbation correcting signal is added at the same location where a

deterministic perturbation is applied in the controlled system (see FIG. 1, "disturbance correction

signal z" is applied relatively at the same location with the disturbance signal z(w)).

Claim Rejections - 35 USC § 103

7. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Weihrich.

Regarding claim 11

Weihrich do not specifically disclose the system is employed in a machine tool, a production

machine or a robot. "Official Notice" is taken for both the concept and advantages of employing

a system for identifying control path to a machine tool, a production machine or a robot is well

known and expected in the art. U.S. Patent No. 5,777,871 to Wise teaches a servo-control system

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with digital and analog error compensation employed in aircraft, ground vehicles, robots and the

like (see Col. 1 lines 10-14). It would have been obvious to one of ordinary skill in the art to

employ the system of Wise to a machine tool, a production machine or a robot because it would

provide great advantages such as overcoming a time-delay and speed of response delay of a tired

or slow operator like a pilot in an aircraft.

Regarding claim 12

Weihrich do not specifically disclose system experiencing perturbation effects from slot latching

of a drive motor driving a machine tool, a production machine or a robot. "Official Notice" is

taken for both the concept and advantages of system experiencing perturbation effects from slot

latching of a drive motor driving a machine tool, a production machine or a robot is well known

and expected in the art. U.S. Patent No. 5,777,871 to Wise teaches a servo-control system which

include experiencing perturbation effect from slot latching of a drive motor (see FIG. 1 and Col.

5 lines 52-67). It would have been obvious to one of ordinary skill in the art to employ the

system of Wise to a machine tool, a production machine or a robot because it would provide

great advantages such as overcoming a time-delay and speed of response delay of a tired or slow

operator like a pilot in an aircraft.

Allowable Subject Matter

Claims 7, 9 and 10 are objected to as being dependent upon a rejected base claim, but 8.

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to examiner Thomas Pham; whose telephone number is (571) 272-

3689, Monday - Thursday from 6:30 AM - 5:00 PM EST or contact Supervisor Mr. Anthony

Knight at (571) 272-3687.

Any response to this office action should be mailed to: Commissioner for Patents, P.O.

Box 1450, Alexandria VA 22313-1450. Responses may also be faxed to the official fax

number (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas Pham

Patent Examiner

January 23, 2006

Tompham